USP HPLC Method Details - Pain Killers

Analyte	Mobile Phase	System Suitability	UV nm	Column
Morphine Sulfate	Water, methanol	phenol	284	L1, 30cm
	(~70:30)+heptanesulfontate+GAC			
Fentanyl	GRADIENT: (A) triethylamine (aq) pH2.62	Fentanyl Realted Cmpnds	206	L7, 15cm
	w/perchloric acid (B) ACN	A, B, D, G, E		
Lorazepam*	ACN(aq) + GAC	RSDs, tailing	230	L1, 25cm
Midazolam (versed)	ACN (aq) + ammonium acetate, 5.5pH	Col. Effic., tailing & RSD	254	L60, 25cm

^{*}Note: requires sample compartment chiller, 4°C; column chiller, 5°C; multiple related compounds – A, B, C, D & E

Other Notes:

- Only the Morphine Sulfate HPLC analysis has been performed prior.
- Only the Agilent Series 1100 HPLC system has autosampler cooling capability; column compartment may not meet requirement.
- Need to purchase an L60-type column.